

**Table 8A**  
**Proposed Channel Improvements**  
**Burton Creek**

Channel Location		Proposed Channel Geometry							Required Capacity, cfs
From	To	Channel Type	Mannings 'n' Value	Slope, %	BW, Ft.	SS	Depth, Ft.	Capacity, cfs	
<b>Burton Creek</b>									
SH 6	WWTP	Earthen	0.035	0.05	110	3:1	14	9,820	9,454
WWTP	29th Street	Earthen	0.035	0.19	62	3:1	12	9,084	8,962
29th Street	Rosemary	Concrete Liner	0.016	0.16	30	1.5:1	12	8,460	9,408
Rosemary	Tributary C	Concrete Liner	0.016	0.16	30	1.5:1	12	8,460	9,408
Tributary C	Tanglewood	Concrete Liner	0.016	0.16	24	1.5:1	12	7,168	7,140
Rosemary	Tributary C	Earthen	0.035	0.16	74	3:1	12	9,560	9,408
Tributary C	Tanglewood	Earthen	0.035	0.16	52	3:1	12	7,326	7,140
Villa Maria	Burton Drive	Earthen	0.040	0.22	18	3:1	10	2,733	2,727
Burton Drive	Avondale	Earthen	0.040	0.22	8	3:1	10	2,021	1,937
Avondale	Woodland	Earthen	0.040	0.39	6	3:1	10	2,506	1,944
Woodland	D/S of Coulter	Earthen	0.040	0.39	6	3:1	10	2,506	574

Notes

1. From 29th Street to Rosemary - complete the concrete liner by paving the channel bottom.
2. From Rosemary to Tanglewood - optional earthen channel or concrete lined channel.
3. Channel capacity is from normal depth calculations.
4. The Required Capacity is the ultimate discharge rate defined in the hydrology report.

Abbreviations

BW = Botom Width of channel

SS = Side Slope (H:V)

U/S = Upstream

D/S = Downstream